**3GPP TSG-RAN WG3 Meeting #114-e R3-216037**

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**Title:** (TP to 38.401 SCG BL CR) SCG activation and deactivation

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# 1. TP to 38.401 SCG BL CR

***--------------------------------Start of the First Change-----------------------------***

### 8.4.x SCG Deactivation and Activation

This clause gives the NR SCG deactivation and activation in EN-DC and MR-DC with NR SN given that the en-gNB and SgNB consists of a gNB-CU and gNB-DU(s).

#### 8.4.x.1 SN Addition with SCG Deactivation



**Figure 8.4.x.1-1: SCG Deactivation in SN Addition procedure**

1. The MN sends the SN addition Request towards the SN, indicates the request of SCG deactivation.

2. The SN-CU-CP sends BEARER CONTEXT SETUP REQUEST message to the SN-CU-UP to setup bearer context.

3. The SN-CU-UP sends the BEARER CONTEXT SETUP RESPONSE message to the SN-CU-CP.

4. The SN-CU sends the UE CONTEXT SETUP REQUEST message to the SN-DU to setup UE context and indicate the request of SCG deactivation.

5. The SN-DU sends the UE CONTEXT SETUP RESPONSE message to the SN-CU, indicates that if the SN-DU accepts the SCG deactivation or not.

6. The SN sends the SN addition Request Acknowledge towards the MN, indicates that if the SN accepts the SCG deactivation or not.

#### 8.4.x.1a SN Addition with SCG Activation



**Figure 8.4.x.1-1: SCG Deactivation in SN Addition procedure**

1. The MN sends the SN addition Request towards the SN, indicates the request of SCG activation.

2. The SN-CU-CP sends BEARER CONTEXT SETUP REQUEST message to the SN-CU-UP to setup bearer context.

3. The SN-CU-UP sends the BEARER CONTEXT SETUP RESPONSE message to the SN-CU-CP.

4. The SN-CU sends the UE CONTEXT SETUP REQUEST message to the SN-DU to setup UE context and indicate the request of SCG activation.

5. The SN-DU sends the UE CONTEXT SETUP RESPONSE message to the SN-CU.

6. The SN sends the SN addition Request Acknowledge towards the MN.

#### 8.4.x.2 MN initiated SN Modification with SCG Deactivation



**Figure 8.4.x.2-1: SCG Deactivation in MN initiated SN Modification procedure**

1. SCG is activated.

2. The MN sends the SN Modification Request towards the SN, indicates the request of SCG deactivation.

3. The SN-CU-CP sends BEARER CONTEXT MODIFICATION REQUEST message to the SN-CU-UP.

4. The SN-CU-UP sends the BEARER CONTEXT MODIFICATION RESPONSE message to the SN-CU-CP.

5. The SN-CU sends the UE CONTEXT MODIFICATION REQUEST message to the SN-DU to indicate the request of SCG deactivation.

6. The SN-DU sends the UE CONTEXT MODIFICATION RESPONSE message to the SN-CU, indicates that the SCG is deactivated or not.

7. The SN sends the SN Modification Request Acknowledge towards the MN, indicates that the SCG is deactivated or not.

#### 8.4.x.3 MN initiated SN Modification with SCG Activation



**Figure 8.4.x.3-1: SCG Activation in MN initiated SN Modification procedure**

1. SCG is deactivated.

2. MN sends the SN Modification Request towards the SN, indicates the request of SCG activation.

3. The SN-CU-CP sends BEARER CONTEXT MODIFICATION REQUEST message to the SN-CU-UP.

4. The SN-CU-UP sends the BEARER CONTEXT MODIFICATION RESPONSE message to the SN-CU-CP

5. The SN-CU sends the UE CONTEXT MODIFICATION REQUEST message to the SN-DU to indicate the request of SCG activation.

6. The SN-DU sends the UE CONTEXT MODIFICATION RESPONSE message to the SN-CU, indicates that the SCG is activated.

7. The SN sends the SN Modification Request Acknowledge towards the MN, indicates that the SCG is activated.

#### 8.4.x.4 SN initiated SN Modification with SCG Deactivation



**Figure 8.4.x.4-1: SCG Deactivation in SN initiated SN Modification procedure**

1. SCG is activated.

2. The SN sends the SN Modification Require towards the MN, indicates the request of SCG deactivation.

3. The MN sends the SN Modification Confirm towards the SN.

4. The SN-CU-CP sends BEARER CONTEXT MODIFICATION REQUEST message to the SN-CU-UP.

5. The SN-CU-UP sends the BEARER CONTEXT MODIFICATION RESPONSE message to the SN-CU-CP.

6. The SN-CU sends the UE CONTEXT MODIFICATION REQUEST message to the SN-DU to indicate the request of SCG deactivation.

7. The SN-DU sends the UE CONTEXT MODIFICATION RESPONSE message to the SN-CU, indicates that the SCG is deactivated.

Editor's note: The order of the step 2, 3 and step 4,5,6,7 is FFS.

#### 8.4.x.5 SN initiated SN Modification with SCG Activation



**Figure 8.4.x.5-1: SCG Activation in SN initiated SN Modification procedure**

1. SCG is deactivated.

2. The SN sends the SN Modification Require towards the MN, indicates the request of SCG activation.

3. The MN sends the SN Modification Confirm towards the SN.

4. The SN-CU-CP sends BEARER CONTEXT MODIFICATION REQUEST message to the SN-CU-UP.

5. The SN-CU-UP sends the BEARER CONTEXT MODIFICATION RESPONSE message to the SN-CU-CP.

6. The SN-CU sends the UE CONTEXT MODIFICATION REQUEST message to the SN-DU to indicate the request of SCG activation.

7. The SN-DU sends the UE CONTEXT MODIFICATION RESPONSE message to the SN-CU, indicates that the SCG is deactivated.

Editor's note: The order of the step 2, 3 and step 4,5,6,7 is FFS.

***-------------------End of the Change-------------------***